



- 1. Identify various special needs conditions and the associated dental care modifications
- 2. Differentiate when CSHCN can be treated chairside or if he/she should be referred to a hospital setting
- 3. Distinguish a high-quality medical consult from a poor-quality medical consult based on clarity and effectiveness
- 4. List online resources to find appropriate evidence to support your medical and dental history workup
- 5. Describe the timing for CSHCN when adult-based dental care may be needed



# Special Needs Condition Categories

COGNITIVE

Autism

PHYSICAL

Cerebral Palsy

MEDICALLY COMPLEX

Sickle Cell Disease



### AUTISM SPECTRUM DISORDER

### 1. SOCIAL COMMUNICATION & INTERACTION

- (1) Social reciprocity ~ now child responds & reciprocates
- (2) Joint attention ~ wanting to share an interest
- (3) Nonverbal communication ~ using or interpreting
- (4) Social relationships ~ developing & maintaining friends
- 2. RESTRICTED or REPETITIVE behavior interests activities
  - -lining up toys, frapping hands, imitating
  - fixed on certain routines (same school route)
  - Restrictive thinking; specific knowledge (titanic, vacuums)

### AUTISM SPECTRUM DISORDER

#### NEEDS SOME SUPPORT NEEDS SUBSTANTIAL SUPPORT SCALE Social communication Social communication - full sentences Sfew words La conversation difficult more ACCURATE Grarely interact Repetitive Restrictive & USEFUL Repetitive restrictive La difficulty switching activities DIAGNOSIS G extremely resistant to change with daily life ASPERGERS LEVEL 1 LEVEL 2 LEVEL 3

SEVERITY

### Dental Modifications

#### SENSORY PROFILE

- Light
- Sound
- Touch
- Texture/Taste
- Smell
- Pain
- Temperature

#### COMMUNICATION

- Social Stories
- Video Modeling

#### INTERDISCIPLINARY CARE

Ask what other providers do

# When Do You Refer to a Hospital Facility?

# Cognitive Disability Clinical Takeaways

ADJUST THE OPERATORY FOR SENSORY ISSUES

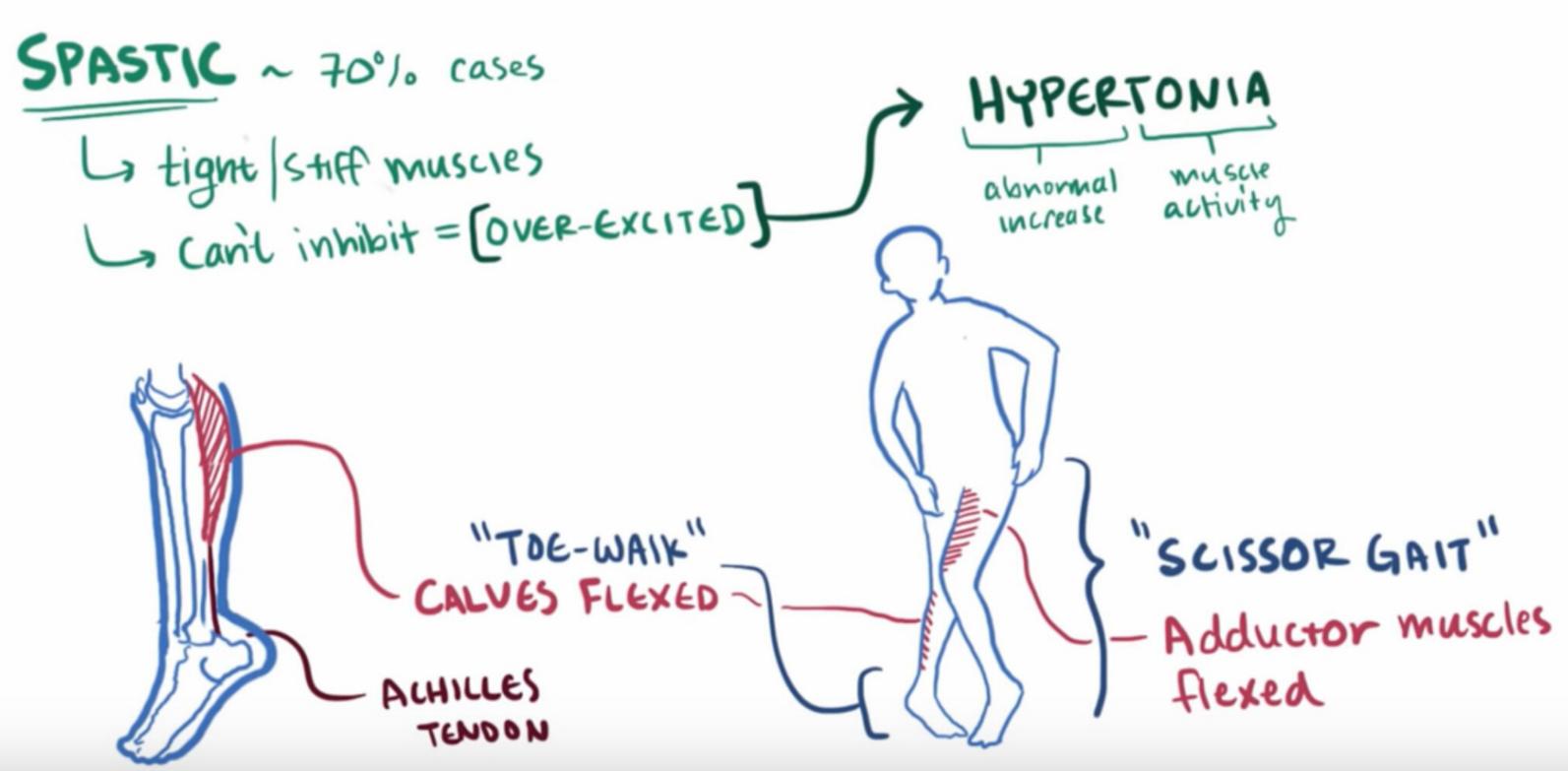
COMMUNICATE
AT AN
APPROPRIATE
LEVEL

REFER DUE TO
BEHAVIOR AND
COOPERATION



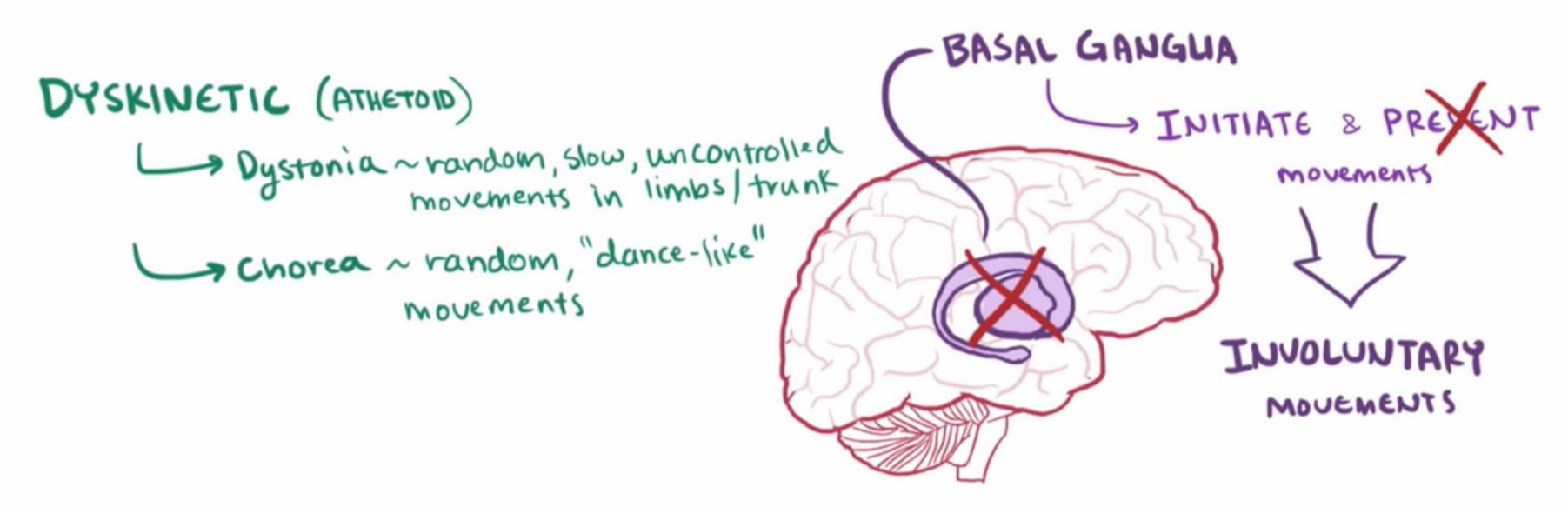
### CEREBRAL PALSY ~ "brain disease causing paralysis"

CLASSIFICATION - by type of movement



### CEREBRAL PALSY ~ "brain disease causing paralysis"

CLASSIFICATION - by type of movement



CEREBRAL PALSY ~ "brain disease causing paralysis"

CLASSIFICATION - by type of movement

ATAXIC ~ snaky or uncoordinated

\* COORDINATION &

precise movements



# Dental Modifications

#### POOR SWALLOW RESPONSE

- Evaluate risk for aspiration -> history of pneumonia
- Wheelchair/dental chair avoid leaning back all the way
- High speed suction

# COGNITION AND COMMUNICATION

- Obtain cognitive level
- Communicate appropriately

#### INTERDISCIPLINARY CARE

Ask what other providers do

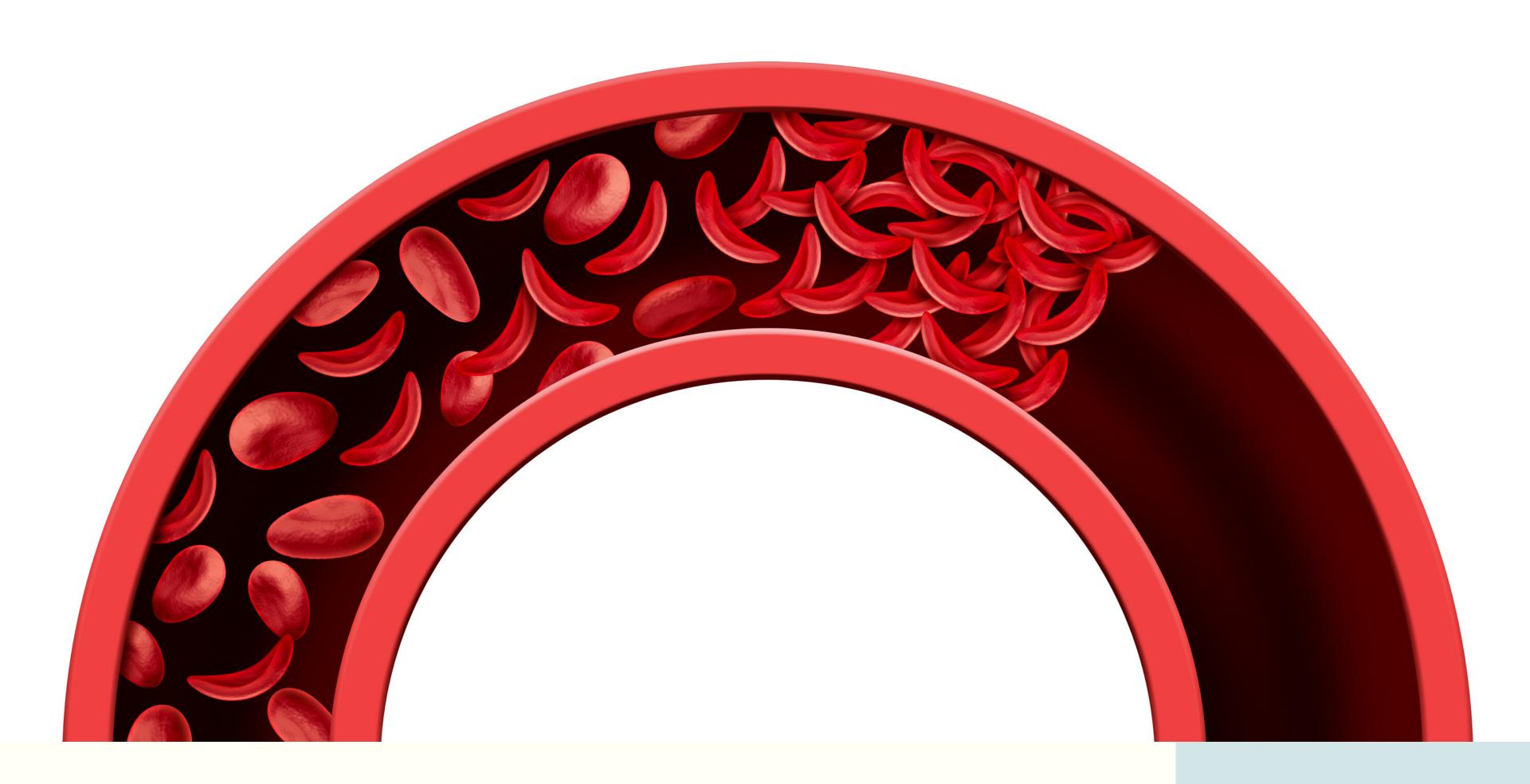
# When Do You Refer to a Hospital Facility?

# Physical Disability Clinical Takeaways

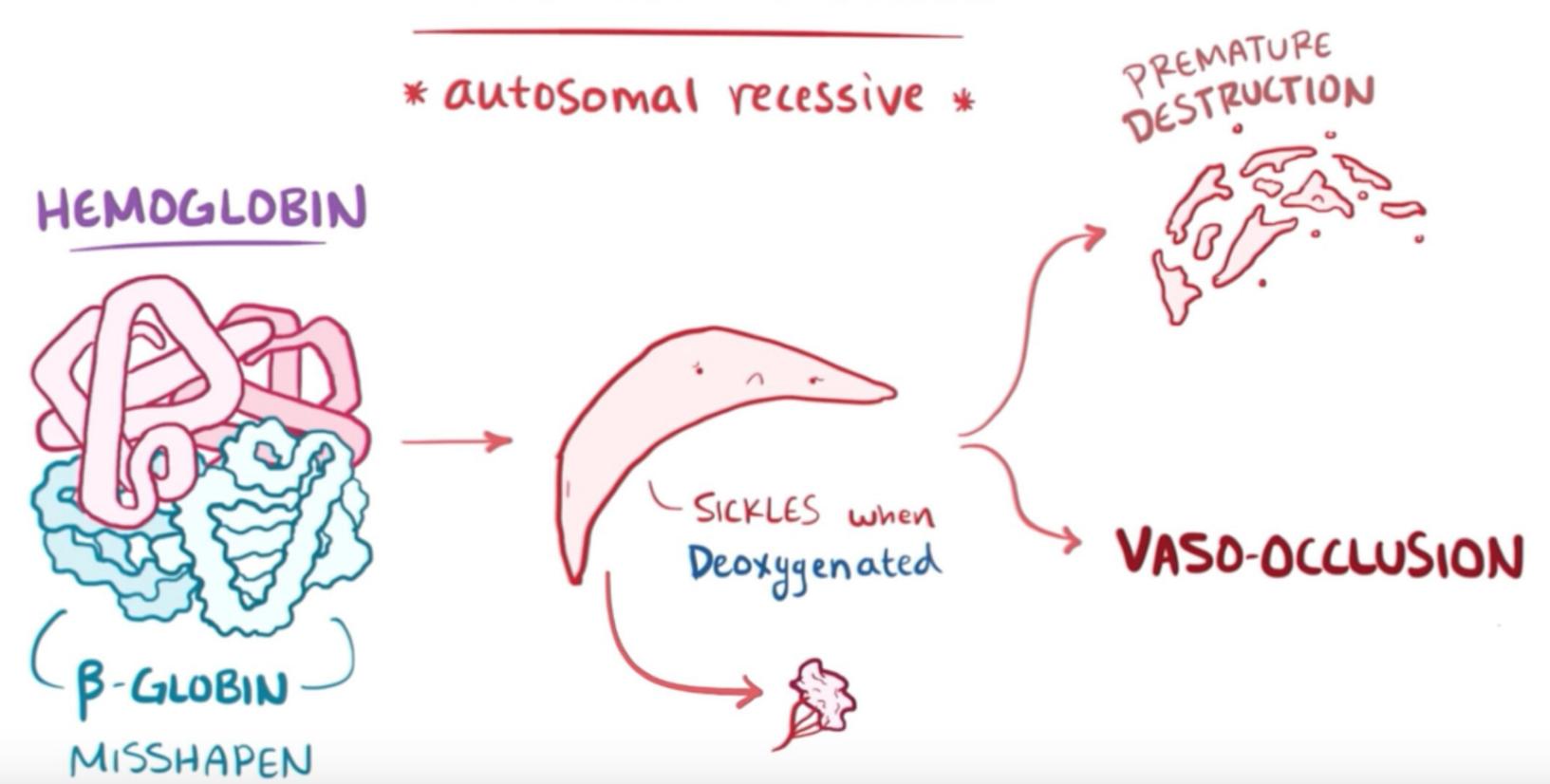
ONLY PERFORM
DENTAL
PROCEDURES
SAFE FOR A
POOR SWALLOW
RESPONSE

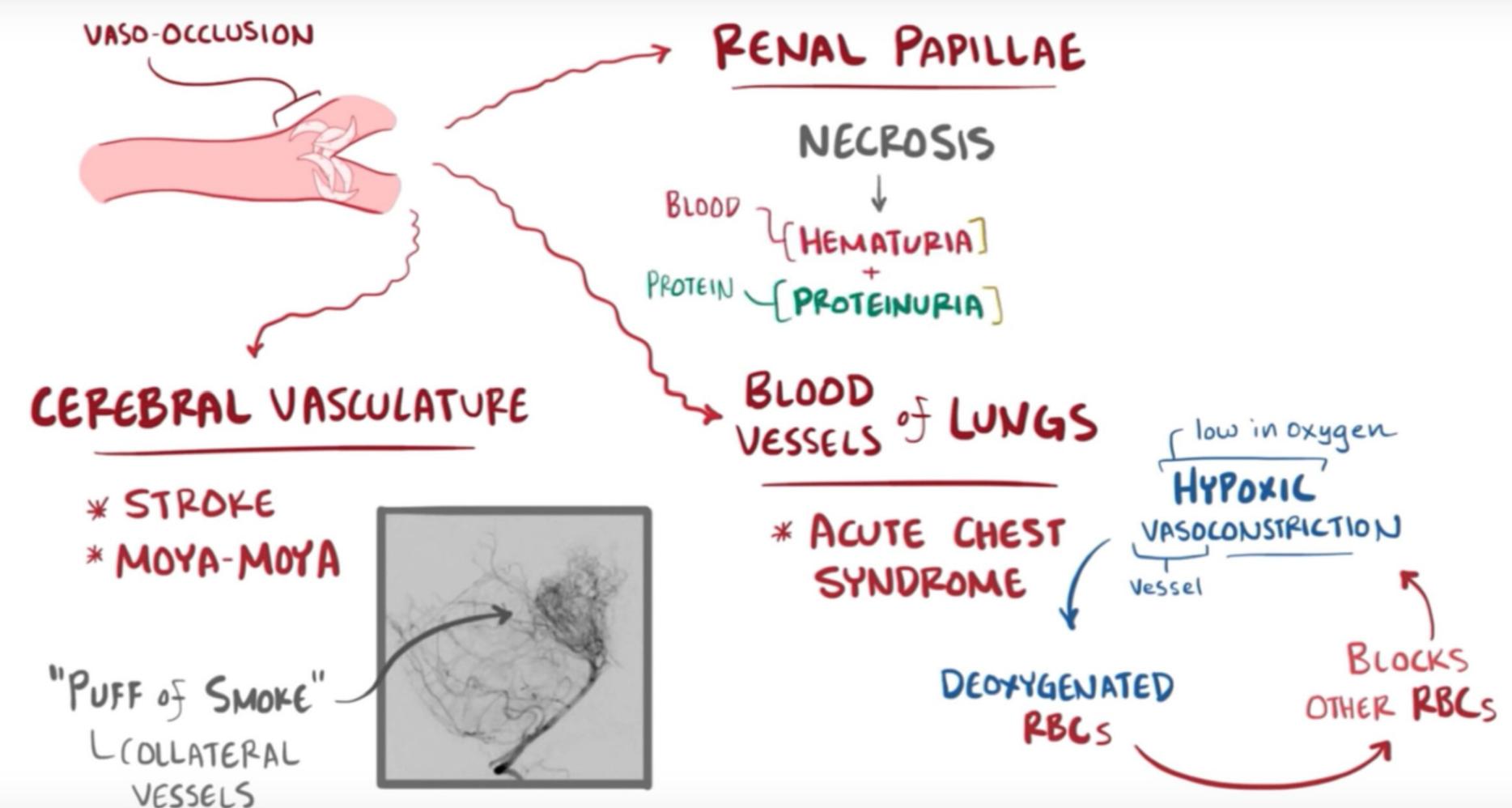
COMMUNICATE
AT AN
APPROPRIATE
LEVEL

REFER DUE TO
PROVIDE SAFE
TREATMENT IF
SIGNIFICANTLY
PHYSICALLY
IMPAIRED



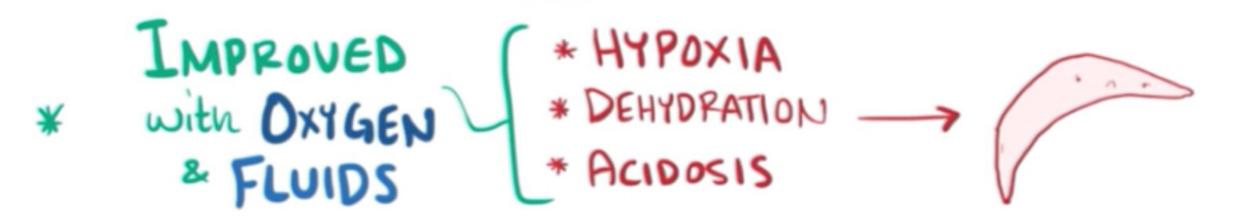
### SICKLE CELL DISEASE





Osmosis."Sickle cell anemia - causes, symptoms, diagnosis, treatment & pathology." YouTube, 5 Nov. 2019, https://www.youtube.com/watch?v=fIIJmg\_1hv0

### TREATMENT



- \* OPIDIDS ~ Manage pain
- \* ANTIBIOTICS ~ underlying bacterial infection from acute chest Syndrome
- \* BLOOD TRANSFUSION

L RISK of IRON OVERLOAD & ANTIBODIES against FUTURE
TRANSFUSIONS

\* CHILDREN -> PENICILLIN & POLYSACCHARIDE VACCINE

| prevent SEPSIS & MENINGITIS

# Dental Modifications

#### CRISIS TRIGGERS

- Pain/Infection Antibiotics/Dental
   Care
- Stress/Anxiety Nitrous
   Oxide/Sedation

#### MEDICAL CONSULTATION

- Risk for crises
- Timing of blood transfusions
- Antibiotics
- Risk of Infection / Relevant Labs

# When Do You Refer to a Hospital Facility?

# Medically Complex Clinical Takeaways

MANAGE
TRIGGERS THAT
EXACERBATE
MEDICAL ISSUE

CONSULT WITH
MEDICAL TEAM
AS THE DENTAL
EXPERT

REFER TO
MEDICAL
FACILITY FOR
HIGH LEVEL
SUPPORT/
MONITORING

### Medical Consultations

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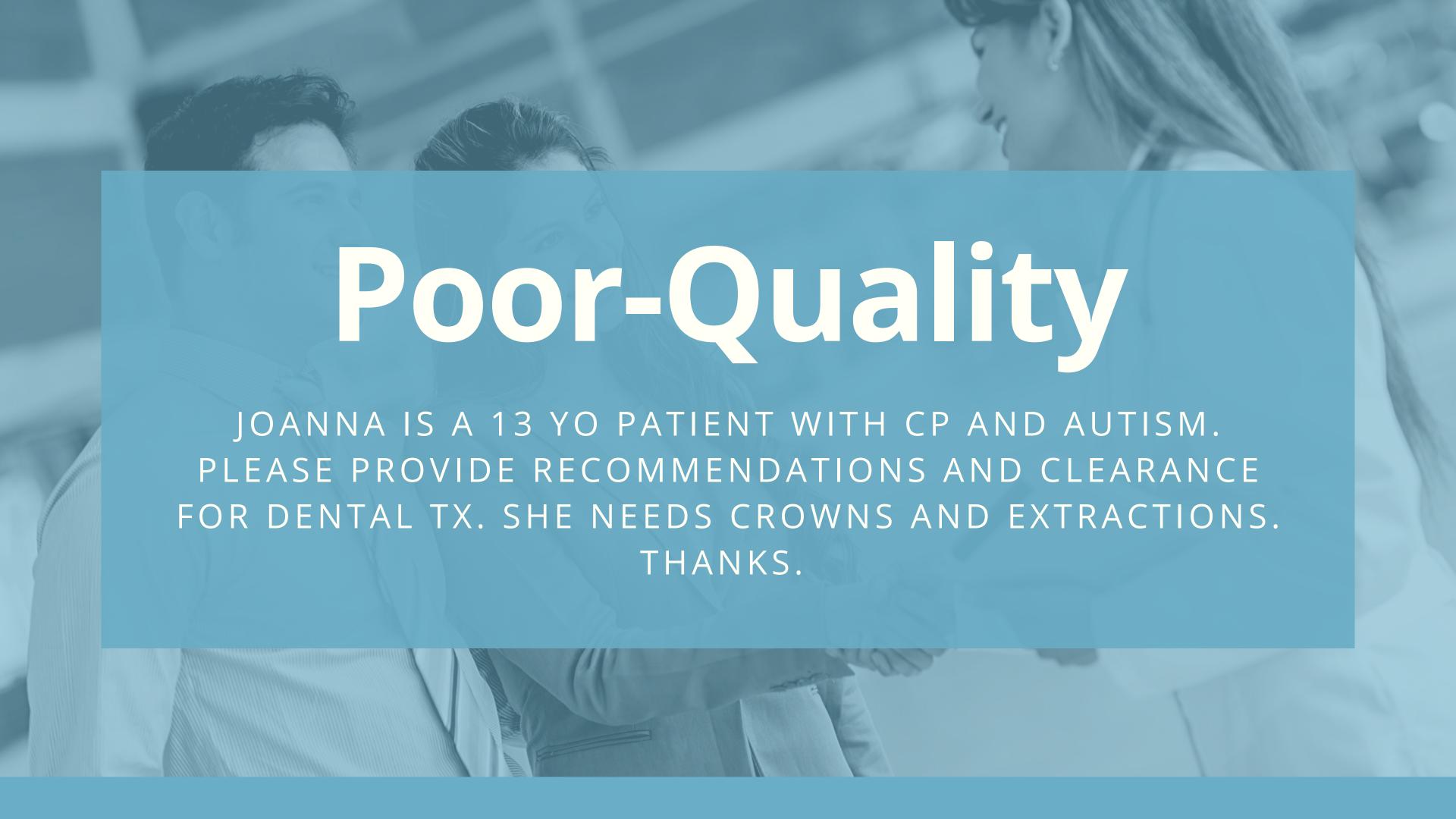
KEYS TO AN
EFFECTIVE
CONSULTATION

POOR-QUALITY CONSULTATION

HIGH-QUALITY CONSULTATION

# Keys to an Effective Medical Consultation

- 1. Determine the question
- 2. Establish urgency
- 3. Look for yourself
- 4. Be as brief as appropriate
- 5. Be specific and thorough
- 6. Provide contingency plans and discuss their execution
- 7. Thou may negotiate joint title to they neighbor's turf
- 8. Teach with tact and pragmatism
- 9. Talk is essential
- 10. Follow-up daily



# High-Quality

WE HAVE A MUTUAL PATIENT, J.B., DOB: X/XX/XXXX WHO PRESENTED TO OUR DENTAL CLINIC, BUT HAVE AN UNCLEAR MEDICAL HISTORY FROM THE MOTHER. SHE HAS URGENT DENTAL NEEDS WITH CAVITIES ON HER BACK TEETH AND A HISTORY OF TOOTH PAIN. ROUTINE DENTAL TREATMENT IS INDICATED, WHICH INCLUDES FILLINGS AND EXTRACTIONS. BECAUSE OF THE HISTORY OF CEREBRAL PALSY, MY MAIN CONCERNS ARE REGARDING HER SWALLOW RESPONSE AND RISK FOR ASPIRATION. MY CURRENT DENTAL PLAN MILD SEDATION WITH NITROUS OXIDE AND OXYGEN (WITH NO LESS THAN 70% OXYGEN), LOCAL ANESTHESIA (2% LIDOCAINE WITH 1:100,000 EPI). PLEASE ADVISE IF THERE ARE MEDICAL CONCERNS WITH THIS TREATMENT PLAN. AN ALTERNATIVE TREATMENT PLAN OF DENTAL CARE UNDER GENERAL ANESTHESIA. THANK YOU. I AM AVAILABLE FOR DISCUSSION AT (XXX) XXX-XXXX.

# Transitioning to Adult-Based Dental Care

"ADULT DENTAL NEEDS" BEYOND THE SCOPE OF PEDIATRIC CARE

PATIENTS
OUTGROW
DENTAL
EQUIPMENT

PEDIATRIC
DENTISTS NEED
THE CAPACITY
TO PROVIDE
CARE FOR
CHILDREN

### When to Transition?

There
is no robust evidence for best
practices to transfer and
transition patients with
special needs from pediatric to
adult centered dental care.

Transition should be a process – not a single point between patient and dentist.

## Online Resources

#### SEARCH

- Pubmed (https://www.ncbi.nlm. nih.gov/pubmed/)
- Google Scholar (https://scholar.google. com/)

#### DATABASES

Genetics Home
 Reference - NIH
 (https://ghr.nlm.nih.go
 v/)

#### PHONE APPS

- Medscape
- Epocrates
- Lexicomp
- UptoDate

# FOUNDATION PAGES

- Ectodermal Dysplasia (https://www.nfed.org/)
- NORD (https://rarediseases.org)

# Takeaways?

- 1. Gandhi RP, Klein U. Autism spectrum disorders: an update on oral health management. J Evid Based Dent Pract. 2014;14 Suppl:115-126.
- 2. Dougherty NJ. A review of cerebral palsy for the oral health professional. Dent Clin North Am. 2009;53(2):329-338.
- 3. da Fonseca M, Oueis HS, Casamassimo PS. Sickle cell anemia: a review for the pediatric dentist. Pediatr Dent. 2007;29(2):159-169.
- 4. Salerno SM, Hurst FP, Halvorson S, Mercado DL. Principles of effective consultation: an update for the 21st-century consultant. Archives of Internal Medicine. 2007;167(3):271-275.
- 5. Nowak AJ, Casamassimo PS, Slayton RL. Facilitating the transition of patients with special health care needs from pediatric to adult oral health care. J Am Dent Assoc 2010;141:1351-6.

### References





# Thank you!

GCANARES1@UMARYLAND.EDU